EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L4	82	(US-20070069003-$ or US-20040168559-$ or US-20040112188-$ or US-20060060046-$ or US-20010006016-$ or US-20040149115-$ or US-20010042427-$ or US-20060096434-$ or US-20030115927-$ or US-20050263520-$ or US-20060168792-$ or US-20070251362-$).did. or (US-6598505-$ or US-6305258-$ or US-3974728-$ or US-5413018-$ or US-5320013-$ or US-5692423-$ or US-5448933-$ or US-3583266-$ or US-4007653-$ or US-6240818-$ or US-7024978-$ or US-7343770-$ or US-RE37323-$ or US-6880441-$ or US-3683736-$ or US-3634916-$ or US-6370931-$ or US-5257644-$ or US-3699719-$ or US-4343111-$ or US-4992639-$ or US-5195410-$ or US-5303510-$ or US-6612906-$ or US-2850854-$ or US-7063596-$).did. or (US-6036578-$ or US-6391042-$ or US-5862728-$ or US-4671149-$ or US-4747895-$ or US-4160055-$ or US-3640167-$ or US-3739669-$ or US-2651148-$ or US-2774193-$ or US-5134911-$ or US-3555950-$ or US-3595453-$ or US-	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2009/05/05 14:18

		3817141-$ or US-4409659-$ or US-5944924-$ or US-6095023-$ or US-7047859-$ or US-6698089-$ or US-6862913-$ or US-3416398-$ or US-4132519-$ or US-4227959-$ or US-0389404-$).did. or (US-2369896-$ or US-2404793-$).did. or (WO-2005039800-$).did. or (JP-56056604-$ or JP-56165527-$ or JP-09057696-$ or JP-09285813-$ or JP-2001054895-$ or JP-2005138130-$ or JP-2005199319-$ or JP-2006043804-$ or JP-03216223-$).did. or (SU-431016-$ or JP-09057696-$ or JP-11138219-$ or JP-11300423-$ or JP-2001054895-$ or JP-2001162331-$ or DE-20114860-U-$ or KR-2002028031-$ or RU-2183525-C-$ or WO-2005039800-A-$ or JP-2006043804-$).did.				
L5	16	4 and (piezo piezoelectric)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2009/05/05 14:18
L6	4	4 and jump	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2009/05/05 14:21
L7	100098	("83").CLAS.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/05 14:25
L8	13	7 and (hammer adj punch)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2009/05/05 14:25
L9	10	("1716414" | "3640167" | "3700150" | "3739669" | "5156076").PN. OR ("5413018").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/05 14:43

L10	16	("3107567" | "3211034" | "3700150" | "3765285" | "4524660" | "4653365" | "5042336" | "5253559" | "5320013" | "5413018" | "5448933" | "Re34602").PN. OR ("5692423").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/05 14:46
L11	12	("3700150" | "3878746" | "4362078" | "4477537" | "5095725" | "5163223" | "5205147").PN. OR ("5320013").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/05 15:03
S1	1	("20070069003").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/04/21 13:59
S2	7	(teruie same takemasu).in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2008/04/21 13:59
S3	2	(ichiki same terashima).in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2008/04/21 14:00
S4	392	(83/686).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/04/21 14:00
S5	23	S4 and vibrat$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2008/04/21 14:01
S6	1754	(83/684-689).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/04/21 14:07
S7	35	(S6 and vibrat$4) not S5	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2008/04/21 14:07
S8	10	("1716414" | "3640167" | "3700150" | "3739669" | "5156076").PN. OR ("5413018").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/04/21 14:14
S9	16	("3107567" | "3211034" | "3700150" | "3765285" | "4524660" | "4653365" | "5042336" | "5253559" | "5320013" | "5413018" | "5448933" | "Re34602").PN. OR ("5692423").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/04/21 14:18
S10	0	(masuzawa and takahisa and hayashi and kazuyuki and miyashita and kinya).in.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/04/21 14:35

S11	5	(masuzawa same takahisa).in.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/04/21 14:35
S12	1	(watabe same masatoshi).in.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/04/21 14:36
S13	0	(nishimoto same eiji).in.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/04/21 14:36
S14	0	(hachikawa same shuichi).in.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/04/21 14:37
S15	0	S6 and hertz	US-PGPUB; USPAT; USOCR	OR	OFF	2008/04/21 14:45
S16	29	S6 and frequency	US-PGPUB; USPAT; USOCR	OR	OFF	2008/04/21 14:45
S17	12	S6 and ultrasonic	US-PGPUB; USPAT; USOCR	OR	OFF	2008/04/21 14:48
S18	371	(83/684).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/04/21 15:23
S19	632	(83/685).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/04/21 15:42
S20	616	S19 not S18	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2008/04/21 15:42
S21	987	S20 S18	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2008/04/21 16:13
S22	392	(83/686).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/04/21 16:13
S23	326	S22 not S21	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2008/04/21 16:14
S24	1313	S23 S21	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2008/04/21 16:29
S25	383	(83/687).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/04/21 16:29
S26	296	S25 not S24	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2008/04/21 16:29
S27	1609	S26 S24	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2008/04/21 16:34
S28	60	(83/688).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/04/21 16:35

S29	46	S28 not S27	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2008/04/21 16:35
S30	1655	S29 S27	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2008/04/21 16:35
S31	165	(83/689).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/04/21 16:35
S32	99	S31 not S30	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2008/04/21 16:35
S33	1754	S32 S30	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2008/04/21 16:37
S34	659	ultrasonic same punch	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2008/04/21 16:40
S35	12	(("20040061247") or ("3634916") or ("4516301") or ("4379686") or ("3970023") or ("3728062") or ("3584101") or ("4051754") or ("3716438") or ("4733519")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/04/21 17:22
S36	192	(vibration same punch) and "83".clas.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2008/04/21 17:26
S37	280	(kawamura same toshio).in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2008/04/21 17:50
S38	17	S37 and press	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2008/04/21 17:50

S39	43	(US-20070069003-$ or US-20040168559-$ or US-20040112188-$ or US-20060060046-$ or US-20010006016-$ or US-20040149115-$).did. or (US-6598505-$ or US-6305258-$ or US-3974728-$ or US-5413018-$ or US-5320013-$ or US-5692423-$ or US-5448933-$ or US-3583266-$ or US-4007653-$ or US-6240818-$ or US-7024978-$ or US-7343770-$ or US-RE37323-$ or US-6880441-$ or US-3683736-$ or US-3634916-$ or US-6370931-$).did. or (US-2369896-$ or US-2404793-$).did. or (WO-2005039800-$).did. or (JP-56056604-$ or JP-56165527-$ or JP-09057696-$ or JP-09285813-$ or JP-2001054895-$ or JP-2005138130-$ or JP-2005199319-$ or JP-2006043804-$ or JP-03216223-$).did. or (SU-431016-$ or JP-09057696-$ or JP-11138219-$ or JP-11300423-$ or JP-2001054895-$ or JP-2001162331-$ or DE-20114860-U-$ or KR-2002028031-$ or RU-2183525-C-$ or WO-2005039800-A-$ or JP-2006043804-$).did.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2008/04/21 17:57
S40	22	S39 and ultrasonic	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2008/04/21 17:57
S41	99741	("83").CLAS.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/12/02 12:40
S42	64	S41 and (ultrasonic and punch)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2008/12/02 12:40

S43	2	(("4343111") or ("4992639")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/12/02 12:49
S44	26	("2791066" | "3699719"). PN. OR ("4343111"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/12/02 12:49
S45	1	S44 and punch	US-PGPUB; USPAT; USOCR	OR	OFF	2008/12/02 12:50
S46	22	("2676604" | "3465627" | "3546742" | "3599623" | "4051734" | "4063844" | "4204447" | "4270559" | "4331170" | "4343111" | "4449434" | "4655480" | "4667552" | "4992639" | "5159865").PN. OR ("5257644").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/12/02 12:50
S47	44	(takahashi same noriyoshi).in.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/12/02 12:52
S48	2	S47 and (press punch)	US-PGPUB; USPAT; USOCR	OR	OFF	2008/12/02 12:52
S49	20	(kawamura same toshio). in.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/12/02 12:53
S50	287	ishii.in. and (punch punching)	US-PGPUB; USPAT; USOCR	OR	OFF	2008/12/02 12:55
S51	33	S50 and ultrasonic	US-PGPUB; USPAT; USOCR	OR	OFF	2008/12/02 12:55
S52	8	("0144286" | "2791066" | "4343111").PN. OR ("5303510").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/12/02 12:59
S53	12	("2034308" | "2850854" | "4093754" | "5197234" | "5303510" | "5307594" | "5967880" | "6422920"). PN. OR ("6612906"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/12/02 13:00
S54	134	(83/356.2).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/12/02 13:13
S55	1	S54 and ultrasonic	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2008/12/02 13:13
S56	825	(83/660,681,682).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/12/02 13:15
S57	9	S56 and ultrasonic	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2008/12/02 13:15
S58	1	("4160055").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/12/02 13:17

S59	10	("1716414" | "3640167" | "3700150" | "3739669" | "5156076").PN. OR ("5413018").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/12/02 13:45
S60	122	(83/956).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/12/02 14:23
S61	0	S60 and (press punch).ti.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2008/12/02 14:25
S62	26	S60 and (press punch)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2008/12/02 14:25
S63	72	(US-20070069003-$ or US-20040168559-$ or US-20040112188-$ or US-20060060046-$ or US-20010006016-$ or US-20040149115-$ or US-20010042427-$ or US-20060096434-$).did. or (US-6598505-$ or US-6305258-$ or US-3974728-$ or US-5413018-$ or US-5320013-$ or US-5692423-$ or US-5448933-$ or US-3583266-$ or US-4007653-$ or US-6240818-$ or US-7024978-$ or US-7343770-$ or US-RE37323-$ or US-6880441-$ or US-3683736-$ or US-3634916-$ or US-6370931-$ or US-5257644-$ or US-3699719-$ or US-4343111-$ or US-4992639-$ or US-5195410-$ or US-5303510-$ or US-6612906-$ or US-2850854-$ or US-7063596-$).did. or (US-6036578-$ or US-6391042-$ or US-5862728-$ or US-4671149-$ or US-4747895-$ or US-4160055-$ or US-3640167-$ or US-	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2008/12/02 16:24

		3739669-$ or US-2651148-$ or US-2774193-$ or US-5134911-$ or US-3555950-$ or US-3595453-$ or US-3817141-$ or US-4409659-$ or US-5944924-$ or US-6095023-$ or US-7047859-$).did. or (US-2369896-$ or US-2404793-$).did. or (WO-2005039800-$).did. or (JP-56056604-$ or JP-56165527-$ or JP-09057696-$ or JP-09285813-$ or JP-2001054895-$ or JP-2005138130-$ or JP-2005199319-$ or JP-2006043804-$ or JP-03216223-$).did. or (SU-431016-$ or JP-09057696-$ or JP-11138219-$ or JP-11300423-$ or JP-2001054895-$ or JP-2001162331-$ or DE-20114860-U-$ or KR-2002028031-$ or RU-2183525-C-$ or WO-2005039800-A-$ or JP-2006043804-$).did.				
S64	47	S63 and (hz hertz ultra ultrasonic)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2008/12/02 16:24
S65	45	S63 and (ultrasonic)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2008/12/02 16:24
S66	8	(ultrasonic adj oscillator) and "83".clas.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2008/12/02 16:27
S67	14	(ultrasonic adj oscillator) same punch	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2008/12/02 16:28
S68	14	("2445934" | "2715440" | "3468203" | "3681627" | "4041815" | "4153080" | "4343111" | "4391168").PN. OR ("4671149").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/12/02 16:31

S69	973	sonotrode	US-PGPUB; USPAT; USOCR	OR	OFF	2008/12/02 16:58
S70	51	S69 and punch	US-PGPUB; USPAT; USOCR	OR	OFF	2008/12/02 16:59
S71	19	sonotrode same punch	US-PGPUB; USPAT; USOCR	OR	OFF	2008/12/02 16:59
S72	1	("6698089").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/12/02 16:59
S73	13	sonotrode and S41	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2008/12/02 17:04
S74	47	sonotronic.as.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2008/12/02 17:09
S75	1	("20080269649").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/12/02 17:12
S76	5	(david same mead).in. and (aries same paul same arthur).in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2008/12/02 17:14
S77	82	(david same mead).in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2008/12/02 17:15
S78	8	(("5692423") or ("4132519") or ("5226343") or ("3416398") or ("4665930") or ("4227959") or ("5740712")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/12/02 17:18
S79	759	(press same (punch punching)).ti.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/12/02 17:32
S80	4	S79 and ultrasonic	US-PGPUB; USPAT; USOCR	OR	OFF	2008/12/02 17:32
S81	13	("2299534" | "2622682" | "2808108" | "3334809" | "3641860").PN. OR ("3974728").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/12/02 18:58
S82	6	("2404793").URPN.	USPAT	OR	OFF	2008/12/02 18:59
S83	9	("4543865").URPN.	USPAT	OR	OFF	2008/12/02 19:00
S84	10	("2369896").URPN.	USPAT	OR	OFF	2008/12/02 19:00

S85	41	("0389404" | "0770239" | "0927311" | "1166613" | "2017195" | "2369896" | "2372011" | "2763325" | "3125917" | "3143026" | "3189238" | "3350972" | "3642522" | "3724305" | "3777601" | "3889563" | "3968674" | "4143569" | "4158578" | "4526077" | "5235881" | "5410927" | "5412972" | "5443195" | "5492001" | "5816093"). PN. OR ("5992280"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/12/02 19:01
S86	122	(83/956).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/04 16:18
S87	32	S86 and (piezo or piezoelectric)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2009/05/04 16:18
S88	14	S86 and (impact)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2009/05/04 16:23

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